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PN - JP7145559 A 19950606  
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 OPD - 1993-11-22  
 TI - WATER-ABSORPTION TREATMENT OF SYNTHETIC FIBER  
 IN - FURUTA TSUNEKATSU; FUJII MINORU  
 PA - UNITIKA LTD  
 IC - D06M10/00 ; D06M14/26

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TI - Water absorption finishing of synthetic fibre - comprises graft polymerising a vinyl] based monomer having acidic gp. to synthetic fibre, alkali treating, etc., providing good washing durability

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PA - (NIRA ) UNITIKA LTD

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AB - J07145559 A water absorption finishing of a synthetic fibre comprises graft polymerising a vinyl based monomer having acidic group to the synthetic fibre, alkali treating it, and irradiating UV ray in C wave region to the fibre.

- Pref. the synthetic fibre include polyamide fibre such as nylon 4, 6, 12, 46, 66, polyester fibre such as PET, PET, polyolefinic fibre such as PE, PP, and acryl fibre, and pref. polyamide fibre or polyester fibre. The vinyl monomer contg. the acidic group include (meth)acrylic acid, itaconic acid, allyl sulphonic acid, methacryl sulphonic acid, styrene sulphuric acid, and pref. acrylic acid or methacrylic acid.
- USE - The water absorption finished synthetic fibre is useful for clothing which contact to the skin.
- ADVANTAGE - The water absorption of the synthetic fibre can be improved greatly water absorptive property of the synthetic fibre, and is possible to have excellent washing durability to the performance. Since the finished fibre has not only water absorptive property but also the acidic group substituted with alkali metal, it has also hygroscopicity, and also since no performance is reduced after UV ray irradiation, excellent comfortability at the time of wearing can be obtained.
- (Dwg. 0/0)

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 TI - WATER-ABSORPTION TREATMENT OF SYNTHETIC FIBER  
 AB - PURPOSE: To impart a synthetic fiber, etc., with water-absorbing performance having remarkably improved resistance to washing by graft-polymerizing a vinyl monomer containing acidic group to a synthetic fiber, etc., treating the product with an alkali and irradiating with ultraviolet rays having specific wavelength.

- CONSTITUTION: A vinyl monomer having an acidic group [preferably (meth) acrylic acid, etc.] is graft-polymerized to a synthetic fiber, etc. The polymerized product is immersed in a liquid containing an alkaline agent such as sodium carbonate and sodium acetate and irradiated with ultraviolet rays of the c-wave region to effect the hydrophilization of the fiber surface and obtain a synthetic fiber having excellent washing resistance and water absorption properties.